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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 From service configuration through performance monitoring to fault detection: implementing an integrated and automated network maintenance platform for enhancing wide area transaction access services

Symeon Papavassiliou, Mike Pace

September 2000 **International Journal of Network Management**, Volume 10 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(961.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design and implementation of integrated and automated network-service management platforms that can seamlessly configure services, monitor service-network performance, and detect network faults are of great importance and interest to the service and network providers. In this paper we describe a set of integrated Operations Support Systems <OSS> that implement proactive network maintenance process in Wide Area Transaction Access Services. Copyright © 2000 John ...

3 A performance evaluation of a novel energy-aware data-centric routing algorithm in wireless sensor networks

Azzedine Boukerche, Xuzhen Cheng, Joseph Linus

September 2005 **Wireless Networks**, Volume 11 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(956.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a novel Energy-Aware Data-Centric Routing algorithm for

wireless sensor networks, which we refer to as EAD. We discuss the algorithm and its implementation, and report on the performance results of several workloads using the network simulator ns-2. EAD represents an efficient energy-aware distributed protocol to build a rooted broadcast tree with many leaves, and facilitate the data-centric routing in wireless micro sensor networks. The idea is to turn off the radios o ...

Keywords: data-centric routing, in-network processing, spanning tree with maximum leaves, wireless sensor network

4 Testing and debugging: Using Hy⁺ for network management and distributed debugging

Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1 CASCON '93**

Publisher: IBM Press

Full text available:  [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A network manager managing a computer network or a programmer attempting to understand and debug a distributed program both must deal with large volumes of data. Visualization is widely believed to help in these and similar tasks. We contend that visualization is indeed useful, but only if accompanied of the following facilities: abstraction, filtering, and layout control. The **Hy⁺** visualization system and GraphLog query language provide these facilities. They support not ...

5 VizSEC innovative visualizations session: CyberSeer: 3D audio-visual immersion for

 network security and management

Christos Papadopoulos, Chris Kyriakakis, Alexander Sawchuk, Xinming He

October 2004 **Proceedings of the 2004 ACM workshop on Visualization and data mining for computer security VizSEC/DMSEC '04**

Publisher: ACM Press

Full text available:  [pdf\(439.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large complex networks have become an inseparable part of modern society. However, very little has been done to develop tools to manage and ensure the security of such networks. Network operators continue to slave over endless daily logs and alerts in a struggle to keep networks operational. Perhaps the most formidable enemy of network operations today is the volume of management data that must be perused. Expensive commercial products attempt to visualize data but with limited utility, as wi ...

Keywords: monitoring, network security, network visualization

6 Power reduction techniques for microprocessor systems

 Vasanth Venkatachalam, Michael Franz

September 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(602.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Power consumption is a major factor that limits the performance of computers. We survey the "state of the art" in techniques that reduce the total power consumed by a microprocessor system over time. These techniques are applied at various levels ranging from circuits to architectures, architectures to system software, and system software to applications. They also include holistic approaches that will become more important over the next decade. We conclude that power management is a ...

Keywords: Energy dissipation, power reduction

7 Response time and display rate in human performance with computers 

 Ben Shneiderman
September 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.88 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Seeing, hearing, and touching: putting it all together 

 Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  pdf(20.64 MB) Additional Information: [full citation](#)

9 Managing battery lifetime with energy-aware adaptation 

 Jason Flinn, M. Satyanarayanan
May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.61 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We demonstrate that a collaborative relationship between the operating system and applications can be used to meet user-specified goals for battery duration. We first describe a novel profiling-based approach for accurately measuring application and system energy consumption. We then show how applications can dynamically modify their behavior to conserve energy. We extend the Linux operating system to yield battery lifetimes of user-specified duration. By monitoring energy supply and demand and ...

Keywords: Power management, adaptation

10 Link and channel measurement: A simple mechanism for capturing and replaying 

 wireless channels

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available:  pdf(6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

11 Information fusion for wireless sensor networks: Methods, models, and classifications 

Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro C. Frery

 September 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless sensor networks produce a large amount of data that needs to be processed, delivered, and assessed according to the application objectives. The way these data are manipulated by the sensor nodes is a fundamental issue. Information fusion arises as a response to process data gathered by sensor nodes and benefits from their processing capability. By exploiting the synergy among the available data, information fusion techniques can reduce the amount of data traffic, filter noisy measure ...

Keywords: Information fusion, architectures and models, data aggregation, data fusion, wireless sensor networks

12 Applications and localization: Underground structure monitoring with wireless sensor networks 

 Mo Li, Yunhao Liu

April 2007 **Proceedings of the 6th international conference on Information processing in sensor networks IPSN '07**

Publisher: ACM Press

Full text available:  pdf(1.88 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Environment monitoring in coal mines is an important application of wireless sensor networks (WSNs) that has commercial potential. We discuss the design of a Structure-Aware Self-Adaptive WSN system, SASA. By regulating the mesh sensor network deployment and formulating a collaborative mechanism based on a regular beacon strategy, SASA is able to rapidly detect structure variations caused by underground collapses. A prototype is deployed with 27 Mica2 motes. We present our implementation expe ...

Keywords: coal mine, structure monitoring, underground, wireless sensor networks

13 Techniques and tools for analyzing intrusion alerts 

 Peng Ning, Yun Cui, Douglas S. Reeves, Dingbang Xu

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional intrusion detection systems (IDSs) focus on low-level attacks or anomalies, and raise alerts independently, though there may be logical connections between them. In situations where there are intensive attacks, not only will actual alerts be mixed with false alerts, but the amount of alerts will also become unmanageable. As a result, it is difficult for human users or intrusion response systems to understand the alerts and take appropriate actions. This paper presents a sequence of t ...

Keywords: Intrusion detection, alert correlation, security management

14 Tool papers: An intelligent, interactive tool for exploration and visualization of time-oriented security data 

 Asaf Shabtai, Denis Klimov, Yuval Shahar, Yuval Elovici

November 2006 **Proceedings of the 3rd international workshop on Visualization for computer security VizSEC '06**

Publisher: ACM Press

Full text available:  pdf(755.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The detection of known and unknown attacks usually requires the interpretation and presentation of very large amounts of time-oriented security data. Using regular means for displaying the data, such as text or tables, is often ineffective. Furthermore, displaying only raw data is not sufficient, because the security expert is still required to derive meaningful conclusions from large amounts of data. In addition, in many cases (e.g., for detecting a virus spreading in the network), an aggregate ...

Keywords: human-computer interaction, intelligent visualization, knowledge-based systems, security, temporal-abstraction

15 Selected writings on computing: a personal perspective 

Edsger W. Dijkstra

January 1982 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employ ...

16 Applications: LUSTER: wireless sensor network for environmental research 

L. Selavo, A. Wood, Q. Cao, T. Sookoor, H. Liu, A. Srinivasan, Y. Wu, W. Kang, J. Stankovic, D. Young, J. Porter

November 2007 **Proceedings of the 5th international conference on Embedded networked sensor systems SenSys '07**

Publisher: ACM

Full text available:  pdf(668.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Environmental wireless sensor network (EWSN) systems are deployed in potentially harsh and remote environments where inevitable node and communication failures must be tolerated. LUSTER---Light Under Shrub Thicket for Environmental Research---is a system that meets the challenges of EWSNs using a hierarchical architecture that includes distributed reliable storage, delay-tolerant networking, and deployment time validation techniques.

In LUSTER, a fleet of sensors coordinate communicati ...

Keywords: LiteTDMA, architecture, environmental science, implementation, mote, network protocol, storage, validation, wireless sensor network

17 Improving interactive performance using TIPME 

 Yasuhiro Endo, Margo Seltzer

June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

On the vast majority of today's computers, the dominant form of computation is GUI-

based user interaction. In such an environment, the user's perception is the final arbiter of performance. Human-factors research shows that a user's perception of performance is affected by unexpectedly long delays. However, most performance-tuning techniques currently rely on throughput-sensitive benchmarks. While these techniques improve the average performance of the system, they do littl ...

Keywords: interactive performance, monitoring

18 Algebra-based scalable overlay network monitoring: algorithms, evaluation, and applications 

Yan Chen, David Bindel, Han Hee Song, Randy H. Katz

October 2007 **IEEE/ACM Transactions on Networking (TON)**, Volume 15 Issue 5

Publisher: IEEE Press

Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Overlay network monitoring enables distributed Internet applications to detect and recover from path outages and periods of degraded performance within seconds. For an overlay network with n end hosts, existing systems either require $O(n^2)$ measurements, and thus lack scalability, or can only estimate the latency but not congestion or failures. Our earlier extended abstract [Y. Chen, D. Bindel, and R. H. Katz, "Tomography-based overlay network monitoring," Proce ...

Keywords: dynamics, load balancing, network measurement and monitoring, numerical linear algebra, overlay, scalability

19 Aurora: a new model and architecture for data stream management 

Daniel J. Abadi, Don Carney, Ugur Çetintemel, Mitch Cherniack, Christian Convey, Sangdon Lee, Michael Stonebraker, Nesime Tatbul, Stan Zdonik

August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(585.97 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Abstract. This paper describes the basic processing model and architecture of Aurora, a new system to manage data streams for monitoring applications. Monitoring applications differ substantially from conventional business data processing. The fact that a software system must process and react to continual inputs from many sources (e.g., sensors) rather than from human operators requires one to rethink the fundamental architecture of a DBMS for this application area. In this paper, we present Aur ...

Keywords: Continuous queries, Data stream management, Database triggers, Quality-of-service, Real-time systems

20 Performance analysis of mobile agents for filtering data streams on wireless networks 

David Kotz, George Cybenko, Robert S. Gray, Guofei Jiang, Ronald A. Peterson, Martin O. Hofmann, Daria A. Chacón, Kenneth R. Whitebread, James Hendler

April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  pdf(267.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are an ideal environment for mobile agents, since their mobility allows them to move across an unreliable link to reside on a wired host, next to or closer to the resources that they need to use. Furthermore, client-specific data transformations can be

moved across the wireless link and run on a wired gateway server, reducing bandwidth demands. In this paper we examine the tradeoffs faced when deciding whether to use mobile agents in a data-filtering application where numerous ...

Keywords: RPC, information filtering, mobile agent, mobile code, performance analysis, wireless network

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IEEE JNL IEEE Journal or Magazine

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Hooper, E.;
Information Assurance, 2006. IWIA 2006. Fourth IEEE International Workshop on
13-14 April 2006 Page(s):20 pp.
Digital Object Identifier 10.1109/IWIA.2006.4
[AbstractPlus](#) | Full Text: [PDF\(440 KB\)](#) [IEEE CNF Rights and Permissions](#)

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

2. **Microsoft agent based health care alert system for smart home**
Kushwaha, N.; Kim, M.;
Enterprise networking and Computing in Healthcare Industry, 2005. HEALTHCARE 2005. 7th International Workshop on
23-25 June 2005 Page(s):259 - 262
Digital Object Identifier 10.1109/HEALTH.2005.1500453
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Castillo-Effler, M.; Quintela, D.H.; Moreno, W.; Jordan, R.; Westhoff, W.;
Devices, Circuits and Systems, 2004. Proceedings of the Fifth IEEE International Workshop on
Volume 1, 3-5 Nov. 2004 Page(s):142 - 146
Digital Object Identifier 10.1109/ICCDCS.2004.1393370
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4. **An intelligent detection and response strategy to false positives and net of network quarantine channels and feedback methods to IDS**
Hooper, M.;
Security, Privacy and Trust in Pervasive and Ubiquitous Computing, 2006. SecurePerv 2006. Second International Workshop on
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Baiardi, Fabrizio; Sgandurra, Daniele;
Information Assurance and Security, 2007. IAS 2007. Third International Sym
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6. Using Attack Information to Reduce False Positives in Network IDS

Shimamura, M.; Kono, K.;
Computers and Communications, 2006. ISCC '06. Proceedings. 11th IEEE Sy
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7. TRINETR: an intrusion detection alert management systems

Yu, J.; Reddy, Y.V.R.; Senthil Selliah; Srinivas Kankanhalli; Sumitra Reddy; V
Enabling Technologies: Infrastructure for Collaborative Enterprises, 2004. WE
International Workshops on
14-16 June 2004 Page(s):235 - 240
Digital Object Identifier 10.1109/ENABL.2004.76

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8. Reasoning about complementary intrusion evidence

Zhai, Y.; Ning, P.; Iyer, P.; Reeves, D.S.;
Computer Security Applications Conference, 2004. 20th Annual
6-10 Dec. 2004 Page(s):39 - 48
Digital Object Identifier 10.1109/CSAC.2004.29

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9. GLEs as a Warning Tool for Radiation Effects on Electronics and System
Based on Real-Time Neutron Monitors

Mavromichalaki, H.; Plainaki, C.; Gerontidou, M.; Sarlanis, C.; Souvatzoglou,
Eroshenko, E.; Klepach, E.; Yanke, V.;
Nuclear Science, IEEE Transactions on
Volume 54, Issue 4, Part 2, Aug. 2007 Page(s):1082 - 1088
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10. Managing communication networks by monitoring databases

Wolfson, O.; Sengupta, S.; Yemini, Y.;
Software Engineering, IEEE Transactions on
Volume 17, Issue 9, Sept. 1991 Page(s):944 - 953
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IT Professional
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Networks, 2005. Jointly held with the 2005 IEEE 7th Malaysia International Conference on Communication, 2005 13th IEEE International Conference on
Volume 1, 16-18 Nov. 2005 Page(s):6 pp.
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Guang Xiang; Xiaomei Dong; Ge Yu;
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29 March-1 April 2005 Page(s):341 - 346
Digital Object Identifier 10.1109/EEE.2005.56
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Bajaj, P.; Keskar, A.;
Intelligent Transportation Systems, 2004. Proceedings. The 7th International Conference on
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Peddireddy, T.D.; Vidal, J.M.;
SoutheastCon, 2002. Proceedings IEEE
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Vougioukas, S.; Roumeliotis, M.;
[EUROCON'2001, Trends in Communications, International Conference on](#).
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Gookwan Ahn; Kwangjo Kim; Hee Yong Youn;
[Enabling Technologies: Infrastructure for Collaborative Enterprises, 2000. \(W IEEE 9th International Workshops on](#)
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21. Toward intelligent Web monitoring: performance of committee neural network
Gopinath, P.; Reddy, N.P.;
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22. Alertness monitor using neural networks for EEG analysis
Wilson, B.J.; Bracewell, T.D.;
[Neural Networks for Signal Processing X, 2000. Proceedings of the 2000 IEEE Society Workshop](#)
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Digital Object Identifier 10.1109/NNSP.2000.890161
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23. Hi-DRA: Intrusion Detection for Internet Security
Kemmerer, R.A.; Vigna, G.;
[Proceedings of the IEEE](#)
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Wang, Peng; Wang, Haixun; Wu, Xiaochen; Wang, Wei; Shi, Baile;
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25. On the trail of intrusions into information systems
Kent, S.;
[Spectrum, IEEE](#)
Volume 37, [Issue 12](#), Dec. 2000 Page(s):52 - 56

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Availability: The percentage of a specified **time interval** during which the system was ...

Mainly used to **monitor network performance**. **Passive Monitoring** ...

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